

## Foreman - Bug #24069

### Organization is not a subclass of Taxonomy

06/25/2018 07:09 PM - Stephen Benjamin

<b>Status:</b>	New	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Category:</b>	Rails	
<b>Target version:</b>		
<b>Difficulty:</b>		<b>Fixed in Releases:</b>
<b>Triaged:</b>	No	<b>Found in Releases:</b>
<b>Bugzilla link:</b>		<b>Red Hat JIRA:</b>
<b>Pull request:</b>		

#### Description

Foreman with Katello is sometimes returning the error "Invalid single-table inheritance type: Organization is not a subclass of Taxonomy." It now happens almost every other hammer command for me on a dev environment. It has to do with Rails' DescendantTracker losing descendants of Taxonomy. I don't know what it means yet, but probably something with rails autoloading and Katello's taxonomy extensions.

```
From: /home/vagrant/.rvm/gems/ruby-2.4.1/gems/activerecord-5.1.6/lib/active_record/inheritance.rb
@ line 203 ActiveRecord::Inheritance::ClassMethods#find_sti_class:
```

```
187: def find_sti_class(type_name)
188:   type_name = base_class.type_for_attribute(inheritance_column).cast(type_name)
189:   subclass = begin
190:     if store_full_sti_class
191:       ActiveSupport::Dependencies.constantize(type_name)
192:     else
193:       compute_type(type_name)
194:     end
195:   rescue NameError
196:     raise SubclassNotFound,
197:       "The single-table inheritance mechanism failed to locate the subclass: '#{type_name}'." \
198:       "This error is raised because the column '#{inheritance_column}' is reserved for storing the class in case of inheritance." \
199:       "Please rename this column if you didn't intend it to be used for storing the inheritance class " \
200:       "or overwrite #{name}.inheritance_column to use another column for that information."
201:   end
202:   unless subclass == self || descendants.include?(subclass)
=> 203:     require 'pry-remote'; binding.remote_pry
204:     raise SubclassNotFound, "Invalid single-table inheritance type: #{subclass.name} is not a subclass of #{name}"
205:   end
206:   subclass
207: end
```

```
[1] pry(Taxonomy)> self
=> Taxonomy(id: integer, name: string, type: string, created_at: datetime, updated_at: datetime, ignore_types: text, description: text, label: string, ancestry: string, title: string, manifest_refreshed_at: datetime)
[2] pry(Taxonomy)> descendants
NameError: undefined local variable or method `descendants' for #<Class:0x0000000a4afce0>
Did you mean? descendants
from /home/vagrant/.rvm/gems/ruby-2.4.1/gems/activerecord-5.1.6/lib/active_record/dynamic_matchers.rb:22:in `method_missing'
[3] pry(Taxonomy)> descendants
=> []
```

```
[4] pry(Taxonomy)> method(:descendants).source_location
=> ["/home/vagrant/.rvm/gems/ruby-2.4.1/gems/activesupport-5.1.6/lib/active_support/descendants_tracker.rb",
 56]
[5] pry(Taxonomy)> ActiveSupport::DescendantsTracker.descendants
ArgumentError: wrong number of arguments (given 0, expected 1)
from /home/vagrant/.rvm/gems/ruby-2.4.1/gems/activesupport-5.1.6/lib/active_support/descendants_tracker.rb:12:in `descendants'
[6] pry(Taxonomy)> ActiveSupport::DescendantsTracker.descendants(self)
=> []
[7] pry(Taxonomy)> Taxonomy.descendants
=> [Location(id: integer, name: string, type: string, created_at: datetime, updated_at: datetime, ignore_types: text, description: text, label: string, ancestry: string, title: string, manifest_refreshed_at: datetime),
  Organization(id: integer, name: string, type: string, created_at: datetime, updated_at: datetime, ignore_types: text, description: text, label: string, ancestry: string, title: string, manifest_refreshed_at: datetime)]
```

## History

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### #1 - 06/27/2018 05:48 PM - Stephen Benjamin

- Project changed from Katello to Foreman
- Category set to Rails
- Triaged set to No

Moving to Foreman as we've now seen it with plain Foreman and other plugins than Katello.

### #2 - 06/27/2018 07:29 PM - Marek Hulán

Quick workaround, restart your develop server. This error only occurs after some code change, seems the class is linked somewhere before the rails env is fully loaded.

### #3 - 06/28/2018 07:49 AM - Daniel Lobato Garcia

I'm also getting this error when developing a new feature in foreman\_ansible, it goes away after a Rails restart as Marek said

### #4 - 06/29/2018 12:13 PM - Stephen Benjamin

I have seen this even without any code changing, e.g. multiple hammer commands against Katello without editing any file, the second or third one fails with this error.

There are also reports in production installs on Satellite, e.g. [https://bugzilla.redhat.com/show\\_bug.cgi?id=1596645](https://bugzilla.redhat.com/show_bug.cgi?id=1596645). Rex fixed this in [#27074](#), although maybe theirs is a separate issue.